

Listing of Claims**1-72. (Canceled)**

73. (Previously Presented) A printed circuit board comprising:

a printed wiring board with an internal ground plane;

at least one component mounted on said printed wiring board;

a top and bottom ground land disposed on top and bottom surfaces, respectively, of said printed wiring board and connected to said ground plane;

an electrically continuous EMI shield conformingly adhered to surfaces of a region on the top and bottom of said printed circuit board, comprising a conductive coating; and a dielectric coating interposed between said conductive coating and selected portions of each said printed circuit board region,

wherein said conductive coating is applied to at least a portion of said top and bottom ground lands.

74. (Previously Presented) The printed circuit board of claim 73, further comprising:

at least one ground via connecting said ground lands to said ground plane.

75. (Previously Presented) The printed circuit board of claim 73, wherein said ground lands are disposed proximate to a same edge of said printed wiring board, and wherein said printed circuit board further comprises:

edge plating disposed on said printed wiring board edge, said edge plating being connected to said ground lands.

76. (Previously Presented) The printed circuit board of claim 75, wherein said edge plating edge plating is connected to said ground plane.

77. (Previously Presented) The printed circuit board of claim 75, wherein said ground lands are ground strips.

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78. **(Previously Presented)** The printed circuit board of claim 77, wherein said ground strips are substantially parallel to said printed wiring board edge.

79. **(Previously Presented)** The printed circuit board of claim 73, wherein said ground lands are disposed proximate to a same edge of said printed wiring board.

80. **(Previously Presented)** The printed circuit board of claim 79, further comprising:
· at least one electrically conductive spring clip secured around said printed wiring board edge so as to contact said top and bottom ground lands.

81. **(Previously Presented)** The printed circuit board of claim 80, wherein said at least one spring clip is a unitary device.

82. **(Previously Presented)** The printed circuit board of claim 80, wherein said at least one spring clip is removably secured around said printed wiring board edge.

83. **(Previously Presented)** The printed circuit board of claim 80, wherein said at least one spring clip is constructed and arranged to be manually secured to said printed circuit board.

84. **(Previously Presented)** The printed circuit board of claim 73, wherein said EMI shield adheres to the surfaces of a plurality of printed circuit board regions on said top and bottom of said printed circuit board.

85. **(Previously Presented)** The printed circuit board of claim 73, wherein said printed circuit board further comprises:

· a plurality of ground pads mounted in said printed wiring board, wherein said conductive coating of at least one of said printed circuit board regions is connected electrically to at least one of said plurality of ground pads;

· a ground plane disposed in said printed wiring board; and

· a plurality of ground vias each connected to said ground plane and to one or more of said plurality of ground pads.

86. (Previously Presented) The printed circuit board of claim 73, wherein said printed circuit board further comprises:

a shielded connector mounted on said printed wiring board, said shielded connector connected to a shielded cable through which signals travel; and

a plurality of ground pads mounted in said printed wiring board so as to substantially surround said shielded connector,

wherein said conductive coating electrically connects at least one of said plurality of ground pads to a shield of said shielded connector.

87. (Previously Presented) The printed circuit board of claim 73, wherein said printed wiring board comprises surface traces, wherein dielectric coating and said surface traces are constructed and arranged such that said surface traces have a desired characteristic impedance.

88. (Previously Presented) The printed circuit board of claim 73, wherein said dielectric coating is thermally conductive.

89. (Previously Presented) The printed circuit board of claim 73, wherein said dielectric coating has a combination of adhesion and viscosity that enables said dielectric coating to be applied with atomization spray techniques so as to access and adhere to exposed surfaces of said one or more regions of the printed circuit board.

90. (Previously Presented) The printed circuit board of claim 89, wherein said conductive coating has a combination of adhesion and viscosity that enables said conductive coating to be applied with atomization spray techniques so as to access and adhere to said dielectric coating and exposed surfaces of said one or more regions of the printed circuit board.

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91. (Previously Presented) A printed circuit board comprising:

- a printed wiring board;
- a component adapted to be detachably mounted on said printed wiring board;
- a first conformal EMI shield that coats a surface of said printed wiring board;
- a second conformal EMI shield that coats a surface of said detachable component; and
- a coupling mechanism for configured to electrically disconnect and connect said first and second conformal EMI shields when said component and said printed wiring board are detached and reattached, respectively.

92. (Previously Presented) The printed circuit board of claim 91, wherein said coupling mechanism comprises:

- a first connector mounted on said printed wiring board and electrically coupled to said first EMI shield; and
- a second connector, matable with said first connector, integral with said detachable component and electrically coupled to said second EMI shield.

93. (Previously Presented) The printed circuit board of claim 92, wherein said first connector is a shielded connector comprising a shield electrically coupled to said first EMI shield, and wherein said second connector is a shielded connector comprising a shield electrically coupled to said second EMI shield.

94. (Previously Presented) The printed circuit board of claim 92, wherein said printed circuit board further comprises:

- a plurality of ground pads mounted in said printed wiring board so as to substantially surround said first shielded connector,
- wherein said first EMI shield is electrically connected to said plurality of ground pads.

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95. **(Previously Presented)** The printed circuit board of claim 91, wherein said printed circuit board further comprises:

a plurality of ground pads mounted in said printed wiring board, wherein said first EMI shield comprises a conductive coating electrically connected to at least one of said plurality of ground pads;

a ground plane disposed in said printed wiring board; and

a plurality of ground vias each connected to said ground plane and to one or more of said plurality of ground pads.

96. **(Previously Presented)** The printed circuit board of claim 92, wherein said printed wiring board comprises surface traces, wherein a dielectric coating of said first EMI shield and said surface traces are constructed and arranged such that said surface traces have a desired characteristic impedance.

97. **(Withdrawn)** A printed circuit board comprising:

a printed wiring board with at least one surface trace;

at least one component mounted on said printed wiring board; and

an electrically continuous EMI shield conformingly adhered to top and bottom surfaces of said printed circuit board, comprising a conductive coating and a dielectric coating interposed between said conductive coating and said printed circuit board surfaces;

wherein said EMI shield has a composition and thickness such that said at least one surface trace has a desired characteristic impedance.

98. **(Withdrawn)** The printed circuit board of claim 113, wherein said coupling mechanism comprises:

a top and bottom ground land disposed on top and bottom surfaces, respectively, of said printed wiring board and connected to an internal ground plane of the printed wiring board, wherein said EMI shield is applied to at least a portion of said top and bottom ground lands.

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99. **(Withdrawn)** The printed circuit board of claim 98, wherein said ground lands are disposed proximate to a same edge of said printed wiring board, and wherein said printed circuit board further comprises:

edge plating disposed on said printed wiring board edge, wherein said edge plating is electrically coupled to said ground lands.

100. **(Withdrawn)** The printed circuit board of claim 98, wherein said ground lands are ground strips.

101. **(Withdrawn)** The printed circuit board of claim 100, wherein said ground strips are substantially parallel to said printed wiring board edge.

102. **(Withdrawn)** The printed circuit board of claim 97, wherein said ground lands are disposed proximate to a same edge of said printed wiring board.

103. **(Withdrawn)** The printed circuit board of claim 102, further comprising:

at least one electrically conductive spring clip secured around said printed wiring board edge so as to contact said top and bottom ground lands.

104. **(Withdrawn)** The printed circuit board of claim 103, wherein said at least one spring clip is a unitary device.

105. **(Withdrawn)** The printed circuit board of claim 103, wherein said at least one spring clip is removably secured around said printed wiring board edge.

106. **(Withdrawn)** The printed circuit board of claim 103, wherein said at least one spring clip is constructed and arranged to be manually secured to said printed circuit board.

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107. **(Withdrawn)** The printed circuit board of claim 97, wherein said printed circuit board further comprises:

a plurality of ground lands disposed on said top and bottom surfaces of said printed wiring board, wherein said EMI shield is electrically connected to at least one of said plurality of ground lands; and

a plurality of ground vias each connected to an internal ground plane of the printed wiring board and to one or more of said plurality of ground pads.

108. **(Canceled)**

109. **(Withdrawn)** The printed circuit board of claim 97, wherein said dielectric coating is thermally conductive.

110. **(Withdrawn)** The printed circuit board of claim 97, wherein said dielectric coating has a combination of adhesion and viscosity that enables said dielectric coating to be applied with atomization spray techniques so as to access and adhere to exposed surfaces of said one or more regions of the printed circuit board.

111. **(Withdrawn)** The printed circuit board of claim 110, wherein said conductive coating has a combination of adhesion and viscosity that enables said conductive coating to be applied with atomization spray techniques so as to access and adhere to said dielectric coating and exposed surfaces of said one or more regions of the printed circuit board.

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112. **(Withdrawn)** The printed circuit board of claim 97, wherein said printed circuit board further comprises:

a shielded connector mounted on said printed wiring board, said shielded connector connected to a shielded cable through which signals travel; and

a plurality of ground pads mounted in said printed wiring board so as to substantially surround said shielded connector,

wherein said conductive coating electrically connects at least one of said plurality of ground pads to a shield of said shielded connector.

113. **(Withdrawn)** The printed circuit board of claim 110, further comprising:

a coupling mechanism that electrically couples said EMI shield adhered to said top surface of said printed circuit board with said EMI shield adhered to said bottom surface of said printed circuit board.